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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/516,832	0	9/22/2005	Ian David Stones	MO2B143	MO2B143 7327	
20411	7590	08/11/2006		EXAMINER		
THE BOC			EDGAR, RICHARD A			
575 MOUNTAIN AVENUE MURRAY HILL, NJ 07974-2064				ART UNIT	PAPER NUMBER	
	,			3745		

DATE MAILED: 08/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)					
Office Action Summary		10/516,832	STONES ET AL.					
		Examiner	Art Unit					
		Richard Edgar	3745					
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the o	correspondence addres	ss				
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tircuit apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this commu					
Status								
1)	Responsive to communication(s) filed on							
· · · · · · · · · · · · · · · · · · ·	This action is FINAL . 2b)⊠ This action is non-final.							
3)	·—							
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Dispositi	on of Claims							
4)	Claim(s) 1-6 and 9 is/are pending in the application	ation.						
· ·	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-3,6 and 9</u> is/are rejected.							
7)🛛	Claim(s) 4 and 5 is/are objected to.							
8)□	Claim(s) are subject to restriction and/or	r election requirement.						
Applicati	on Papers							
9)□	The specification is objected to by the Examine	r.						
•	The drawing(s) filed on <u>03 December 2004</u> is/a		ted to by the Examine	r.				
·	Applicant may not request that any objection to the							
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1	.121(d).				
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-1	152.				
Priority u	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for foreign ⊠ All b)□ Some * c)□ None of:)-(d) or (f).					
	1. Certified copies of the priority documents							
	2. Certified copies of the priority documents							
	3. Copies of the certified copies of the prior	<u>-</u>	ed in this National Sta	ge				
* 0	application from the International Bureau		ا					
3	see the attached detailed Office action for a list	or the certified copies not receive	ea.					
Attachmen	t(s)							
	e of References Cited (PTO-892)	4) Interview Summary						
3) 🔯 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 12/03/04.	Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152	2)				
		, <u> </u>						

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by United States Patent No. 6,162,012 (Tuckey et al. hereinafter).

Tuckey et al. show in FIGS. 9-13 a regenerative fluid pump comprising a rotor 282 having rotor blades 284, 286, and a stator 12" comprising a plurality of concentric channels 252, 256 which comprise pumping channel portions along which said rotor blades move for compressing fluid between respective inlets 254, 260 and respective outlets 258, 262 of the pumping channel portions and stripper portions for allowing said rotor blades to pass from said outlets to said inlets of the pumping channel portion (see FIG. 10), wherein at least one of the concentric channels comprises at least two pumping channel portions and as least two stripper channel portions (see FIG. 10).

Each of the concentric channels 252, 256 comprises at least two pumping channel portions (separated by curved transitions 264, 266) and at least two stripper channels portions such that two fluid flow paths are formed between respective pump inlets and respective pump outlets (see FIG. 10).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent No. 6,162,012 (Tuckey et al. hereinafter) as applied to claims 1 and 2 above, and further in view of United States Patent No. 5,498,125 (Hablanian hereinafter).

Tuckey et al. show a regenerative pump having radially inner inlets 254, 260 and radially outer outlets 258, 262 (see FIG. 10), and therefore not radially outer inlets and radially inner outlets.

Hablanian shows that a regenerative pump can increase fluid pressure by having a spiraling fluid passage 420, 422 with a radially outer inlet 440 and a radially inner outlet 444 (see FIG. 25).

Since Tuckey et al. is a regenerative pump with spiraling fluid paths, and Hablanian teaches that the inlet and outlets for a regenerative pump should be arranged

with the inlet radially outwards with respect to the radial inner outlet for the purpose of increasing the fluid pressure in the spiral passage, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the inlets and outlets of Tuckey et al. to be reversed, as taught by Hablanian, for the purpose of increasing the fluid pressure between the radially outward inlet toward the radially inward outlet, along the spiral path.

Allowable Subject Matter

Claims 4 and 5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: In the examiner's opinion, it would have been unobvious to a person having ordinary skill in the art to modify the radially inner concentric pumping channels 274, 276 of United States Patent No. 6,162,012 (Tuckey et al. hereinafter) to be only one pumping channel with one stripper channel portion, as is required in each of claims 4 and 5, since Tuckey et al. only show the radially inner concentric channel comprising two pumping channels 274, 276 and two stripper channel portions.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Edgar whose telephone number is (571) 272-

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4816. The examiner can normally be reached on Mon.-Thur. and alternate Fri., 7 am- 5 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look can be reached on (571) 272-4820. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Richard Edgar

Examiner

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